

Magic Squares: Fractions

Name: _____ Date: _____



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is $28\frac{1}{3}$.

$\frac{5}{6}$	$11\frac{2}{3}$	$12\frac{1}{2}$	$3\frac{1}{3}$	$\rightarrow 28\frac{1}{3}$
10	$5\frac{5}{6}$	5	$7\frac{1}{2}$	$\rightarrow 28\frac{1}{3}$
$6\frac{2}{3}$	$9\frac{1}{6}$	$8\frac{1}{3}$	$4\frac{1}{6}$	$\rightarrow 28\frac{1}{3}$
$10\frac{5}{6}$	$1\frac{2}{3}$	$2\frac{1}{2}$	$13\frac{1}{3}$	$\rightarrow 28\frac{1}{3}$
$\swarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$

The magic number is $11\frac{1}{3}$.

		$\frac{2}{3}$	$4\frac{1}{3}$
	$3\frac{1}{3}$	$3\frac{2}{3}$	
3			
	5	$4\frac{2}{3}$	$\frac{1}{3}$

The magic number is $32\frac{1}{2}$.

	12	$\frac{1}{2}$	4	
				8
	3	$6\frac{1}{2}$		11
	6	$9\frac{1}{2}$		$1\frac{1}{2}$
$5\frac{1}{2}$	9	$12\frac{1}{2}$		$4\frac{1}{2}$

The magic number is $55\frac{1}{2}$.

$3\frac{1}{2}$	3		17		
4		$16\frac{1}{2}$		8	
$13\frac{1}{2}$		$9\frac{1}{2}$	9		5
	14	10	$8\frac{1}{2}$	$4\frac{1}{2}$	6
	11		1	$15\frac{1}{2}$	15
	12		2	$14\frac{1}{2}$	16

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ANSWER KEY



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is $28\frac{1}{3}$.

$\frac{5}{6}$	$11\frac{2}{3}$	$12\frac{1}{2}$	$3\frac{1}{3}$	$\rightarrow 28\frac{1}{3}$
10	$5\frac{5}{6}$	5	$7\frac{1}{2}$	$\rightarrow 28\frac{1}{3}$
$6\frac{2}{3}$	$9\frac{1}{6}$	$8\frac{1}{3}$	$4\frac{1}{6}$	$\rightarrow 28\frac{1}{3}$
$10\frac{5}{6}$	$1\frac{2}{3}$	$2\frac{1}{2}$	$13\frac{1}{3}$	$\rightarrow 28\frac{1}{3}$
$\swarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$	$\downarrow 28\frac{1}{3}$

The magic number is $11\frac{1}{3}$.

$5\frac{1}{3}$	1	$\frac{2}{3}$	$4\frac{1}{3}$
$1\frac{2}{3}$	$3\frac{1}{3}$	$3\frac{2}{3}$	$2\frac{2}{3}$
3	2	$2\frac{1}{3}$	4
$1\frac{1}{3}$	5	$4\frac{2}{3}$	$\frac{1}{3}$

The magic number is $32\frac{1}{2}$.

$8\frac{1}{2}$	12	$\frac{1}{2}$	4	$7\frac{1}{2}$
$11\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	7	8
2	3	$6\frac{1}{2}$	10	11
5	6	$9\frac{1}{2}$	$10\frac{1}{2}$	$1\frac{1}{2}$
$5\frac{1}{2}$	9	$12\frac{1}{2}$	1	$4\frac{1}{2}$

The magic number is $55\frac{1}{2}$.

$3\frac{1}{2}$	3	$17\frac{1}{2}$	17	$7\frac{1}{2}$	7
4	$2\frac{1}{2}$	$16\frac{1}{2}$	18	8	$6\frac{1}{2}$
$13\frac{1}{2}$	13	$9\frac{1}{2}$	9	$5\frac{1}{2}$	5
$12\frac{1}{2}$	14	10	$8\frac{1}{2}$	$4\frac{1}{2}$	6
$11\frac{1}{2}$	11	$1\frac{1}{2}$	1	$15\frac{1}{2}$	15
$10\frac{1}{2}$	12	$\frac{1}{2}$	2	$14\frac{1}{2}$	16